(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization

International Bureau





HARIN BUNGEN IN ENGLE KARIN BUNG BUNG BUKK BUKK 1 K 11 BUNG BUNG BURG BUNG BURG KECAN KENCATUR KERANCI KUTA KER

PCT

(10) International Publication Number WO 2004/094472 A2

(51) International Patent Classification⁷:

C07K 14/78

(21) International Application Number:

PCT/GB2004/001719

(22) International Filing Date: 21 April 2004 (21.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0309064.4

22 April 2003 (22.04.2003) GB

- (71) Applicant (for all designated States except US): THE VICTORIA UNIVERSITY OF MANCHESTER; Oxford Road, Manchester M13 3PL.
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): KADLER, Karl [GB/GB]; 24 Waterside, Marple, Stockport, Cheshire SK6 7LY (GB). BULLEID, Neil [GB/GB]; 31 South Parade, Bramhall, Stockport SK7 3BJ (GB). ASHCROFT, Gillian [GB/GB]; 7 Broadhurst Lane, Wrightington, Lancs., WN6 9RX (GB).
- (74) Agent: MARKS & CLERK; Tower Building, Water Street, Liverpool L3 1BA (GB).

- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



(54) Title: MODIFIED PEPTIDES AND THEIR USES

(57) Abstract: A modified $pro-\alpha$ chain comprising a triple helix forming domain linked to at least an N-terminal domain, the N-terminal domain containing a polypeptide from at least part of a laminin glycoprotein or secretory leukocyte protease inhibitor. The $pro-\alpha$ chain may form part of a procollagen molecule that has the N-terminal domain retained. The procollagen molecules may be incorporated into collagen polymers, matrices and gels and be used for such applications as wound healing.